Linzer biol. Beitr.	33/1	217-221	29.6.2001

The present situation of the Vespidae-fauna (Hymenoptera, Aculeata) of Turkey

E. YILDIRIM & J. GUSENLEITNER

Abstract: The present situation of Vespidae species of Turkey were evaluated. Including the new taxa determined in this study, a total of 289 species and subspecies belonging to 52 genera were recorded up to now. From subfamily Eumeninae and Masarinae *Quartinia popovi* GUSSAKOVSKII 1936, *Jucancistrocerus caspicus* GIORDANI SOIKA 1970, *Microdynerus* (*Microdynerus*) *aegaeicus* GUSENLEITNER 1998 and *Odynerus fulvitarsis* (MORAWITZ 1895) are new records for the Turkish fauna. In addition, new localities were found for some species and subspecies previously known in Turkey.

Key words: Hymenoptera, Vespidae, Eumeninae, Polistinae, Vespinae, Fauna, Turkey.

Introduction

Total 280 species and subspecies belonging to 52 genera of Vespidae were recorded from Turkey (YÝLDÝRÝM & KOJIMA 1999).

GUSENLEITNER (2000a, 2000b) recorded*Microdynerus aegaeicus* GUSENLEITNER 1998 from Muðla (Fethiye, Patara) and described *Stenodynerus haladaorum* GUSENLEITNER 1999 from Kahramanmara, *Microdynerus rubiculus* GUSENLEITNER 2000 from Kahra (Adiyaman), *Acanthodynerus multimaculatus* GUSENLEITNER 2000 from Nemrut Dagi mt., 50 km NE of Kanta, *Hemipterochilus simplex* GUSENLEITNER 2000 from Hakkari, (Yüksekova), Sivas (Gürün), Bitlis (Adilcevaz), Ağrÿ, Van (Gevaş, Başkale) in Turkey. ÖZBAY & BILGIN (1997) recorded *Paravespa quadricolor* MORAWITZ, 1885 (no locality) from Turkey. GUSENLEITNER (2000a) recorded *Parodontodynerus ephippium anatoliae* GIORDANI SOIKA 1952 as a synonym of *P. e. ephippium* (KLUG 1817).

TÜZÜN & TANYOLAÇ (1988a, b) reported a study about Eumenidae species found in Aegean Region of Turkey depending on the translation of BERLAND (1928) work without respecting scientific data or findings. On the basis of our experience and knowledge, the existence of the most of species in Turkey described by TÜZÜN & TANYOLAÇ (1988a, b) is questionable, or may even not be possible. We believed that the same mistake was repeated by TÜZÜN et al. (2000). Thus, the scientific conflicts in the article of TÜZÜN et al. (2000) were criticised by GUSENLEITNER (2001) in great detail.

In this study, the last situation of Vespidae species of Turkey were evaluated. Including the new taxa determined, a total of 288 species and subspecies belonging to 52 genera were recorded up to now. The material of the family Vespidae was collected from different localities of Turkey in the last years.

Results

Masarinae

Quartinia popovi GUSSAKOVSKII 1936, New for Turkish fauna

Material examined: Van: Gevas, 2.7.2000, 2♀♀, 1♂, leg. M. Halada, coll. Biologiezentrum des Oberösterreichischen Landesmuseum, Linz.

Until now this species was known only from Central Asia.

Eumeninae

Alastor (Alastor) mocsaryi **(ANDRE 1884)**

Synonym: *Alastor (Alastor) bieglebeni* GIORDANI SOIKA 1942

Material examined: Kars: Sarıkamış, 1700 m, 17.VIII.1998, ♂; Konya: Güneysınır, Güragaç, 1017 m, 8.VII.2000, ♀, ♂.

Ancistrocerus claripennis ponticus **GIORDANI SOIKA 1970**

Material examined: Rize: Çamlıhemşin, Ayder, 1200 m, 30.VII.2000, ♀, İkizdere, Çamlık, 1600 m, 29.VII.2000, ♀, Ovit Mt., 2600 m, 29.VII.2000, ♂.

Ancistrocerus o. oviventris **(WESMAEL 1836)**

Material examined: Rize: Ballıköy, 2300 m, 5.VIII.1998, ♂, Çamlıhemşin, 1200 m, 30.VII.2000, ♂.

Ancistrocerus scoticus **(CURTIS 1826)**

Material examined: Rize: İkizdere, Ovit Mt., 2600 m, 11.VIII.2000, 4♀♀, 18♂♂.

Antepipona o. orbitalis **(HERRICH-SCHAEFFER 1839)**

Material examined: Rize: İkizdere, Çamlık, 1600 m, 29.VII.2000, ♀.

Brachyodynerus kusdasi **GUSENLEITNER 1967**

Material examined: Bitlis: Adilcevaz, 1850 m, 20.VII.1999, ♂; Konya: Güneysınır, Güragaç, 1017 m, 3.IX.2000, ♂.

Eumenes c. coarctatus **LINNAEUS 1758**

Material examined: Konya: Güneysınır, Güragaç, 1017 m, 3.IX.2000, ♂.

Eumenes coronatus detonsus **BLÜTHGEN 1943**

Material examined: Niğde: Ulukışla, Çiftehan, 1050 m, 8.VIII.1999, 2♀♀.

Euodynerus (Euodynerus) hellenicus **BLÜTHGEN 1942**

Material examined: Bitlis: Adilcevaz, 1850 m, 20.VII.1999, ♂.

***Euodynerus* (*Euodynerus*) *s. semisaecularis* DALLA TORRE 1889**

Material examined: Konya: Güneysınır, Gürağaç, 1017 m, 11.VI.1999, ♂, 4.VII.1999, ♀.

***Eustenancistrocerus* (*Parastenancistrocerus*) *a. amadanensis* (SAUSSURE 1885)**

Material examined: Konya: Güneysınır, Gürağaç, 1017 m, 3.IX.2000, 4♀♀, 3♂♂.

***Jucancistrocerus caspicus* GIORDANI SOIKA 1970, New for the Turkish fauna**

Material examined: Bingöl: Solhan, 2120 m, 25.VII.2000 m, ♀.

Distribution in the world: Iran, Daghestan (GIORDANI SOIKA 1970; VECHT & FISCHER 1972).

***Katamenes sichelii tauriae* (GIORDANI SOIKA 1960)**

Material examined: Konya: Güneysınır, Gürağaç, 1017 m, 11.VI.1999, ♀, 3.IX.2000, ♀.

***Microdynerus* (*Microdynerus*) *aegaeicus* GUSENLEITNER 1998, New for the Turkish fauna.**

Material examined: Antalya: Beldibi, 23.4.-5.5.1988, ♂, leg. H. Wolf; Side, 23.4.1973, ♂, leg. K. Warncke; Muğla: Fethiye, Patara, 14.4.1998, 5♂♂, leg. W. Arens.

Until now this species was known only from Samos.

***Microdynerus* (*Alastorynerus*) *microdynerus* (DALLA TORRE 1889)**

Material examined: Kars: Sarıkamış, Karakurt, 1500 m, 2.VI.1999, ♂.

***Microdynerus* (*Microdynerus*) *longicollis* MORAWITZ 1895**

Material examined: Kars: Sarıkamış, Karakurt, 1500 m, 2.VI.1999, ♀.

***Odynerus* (*Spinicoxa*) *albopictus calcaratus* (MORAWITZ 1885)**

Material examined: Kars: Sarıkamış, Karakurt, 1500 m, 2.VI.1999, ♀; Sivas: Türkkeşlik, 1700 m, 16.VII.1999, ♀, 5♂♂.

***Odynerus fulvitarsis* (MORAWITZ 1895), New for the Turkish fauna.**

Material examined: Erzurum: Uzundere, 1100 m, 13.V.2000, ♂.

Distribution in the world: Transcaucasia, Kazakhstan (VECHT & FÝSCHER 1972).

***Onychopterocheilus h. hellenicus* MORAWITZ 1885**

Material examined: Kars: Sarıkamış, Karakurt, 1500 m, 2.VI.1999, ♀.

***Paravespa g. grandis* (MORAWITZ 1885)**

Material examined: Konya: Güneysınır, Gürağaç, 1017 m, 8.VII.2000, ♂, 21.VIII.1998, ♂.

***Pseudepipona* (*Deuterepipona*) *ionia clausa* GIORDANI SOIKA 1943**

Material examined: Konya: Güneysınır, Gürağaç, 1017 m, 3.IX.2000, ♀.

Raphiglossa e. eumenoides **S.S.SAUNDERS 1850**

M a t e r i a l e x a m i n e d : Bitlis: Adilcevaz, Yıldız, 1950 m, 15.VII.1999, 2♂♂.

Stenodynerus fastidiosissimus difficilis **(MORAWİTZ 1867)**

M a t e r i a l e x a m i n e d : Bitlis: Adilcevaz, Yıldız, 1950 m, 15.VII.1999, ♂.

Symmorphus (Symmorphus) gracilis **(BRULLÈ 1832)**

M a t e r i a l e x a m i n e d : Konya: Güneysınır, Gürağaç, 1017 m, 8.VII.2000, ♀.

Syneuodynerus e. egregius **(HERRİCH-SCHAEFFER 1839)**

M a t e r i a l e x a m i n e d : Kars: Sarıkamış, Karakurt, 1700 m, 4.VI.2000, ♂.

P o l i s t i n a e

Polistes (Polistes) atrimandibularis **ZİMMERMANN 1930**

M a t e r i a l e x a m i n e d : Konya: Beyşehir, 5.VII.1998, ♀, Çumra, Kuzucu, 1000 m, 20.VII.2000 m, 2♂♂; Rize: İkizdere, Ovit Mt., 2600 m, 11.VIII.2000, 2♂♂.

Polistes (Polistes) biglumis **(LİNNAEUS 1758)**

M a t e r i a l e x a m i n e d : Konya: Güneysınır, Gürağaç, 1017 m, 20.VI.1999, 2☿☿; Rize: İkizdere, Ovit Mt., 2600 m, 11.VIII.2000, 2♀♀.

Polistes (Polistes) sulcifer **(ZİMMERMANN 1930)**

M a t e r i a l e x a m i n e d : Ankara: Haymana, 21.VIII.1997, 2♂♂; Nevşehir: Ürgüp, Aksalım, 1600 m, 13.VIII.1999, ♂; Rize: İkizdere, Ovit Mt., 2600 m, 11.VIII.2000, 2♀♀.

V e s p i n a e

Dolichovespula (Boreovespula) norwegica **(FABRİCİUS 1781)**

M a t e r i a l e x a m i n e d : Rize: İkizdere, Çamlık, 1600 m, 29.VII.2000, 2♂♂, Ovit Mt., 2600 m, 29.VII.2000, ♂.

Dolichovespula (Dolichovespula) media **(RETZİUS 1783)**

M a t e r i a l e x a m i n e d : Rize: İkizdere, Çamlık, 1600 m, 29.VII.2000, ♂.

Dolichovespula (Pseudovespula) omissa **(BİSCHOFF 1931)**

M a t e r i a l e x a m i n e d : Kars: Sarıkamış, Karakurt, 2.V.2000 ♀.

Dolichovespula (Pseudovespula) adulterina **(du BUYSSON 1905)**

M a t e r i a l e x a m i n e d : Rize: İkizdere, Çamlık, 1600 m, 29.VII.2000, 2♂♂.

Vespula (*Paravespula*) *vulgaris* (LINNAEUS 1758)

Material examined: Adıyaman: Besni, 29.VIII.1999, ☿; Amasya: 6.IX.1999, ☿; Bitlis: Adilcevaz, 1850 m, 20.VII.1999, ☿; Konya: Bozkır, Belören, 1017 m, 22.VII.2000, ☿.

Zusammenfassung

Der derzeitige Stand der Vespiden-Fauna der Türkei wurde aufgezeigt. Einschließlich der hier vorgestellten neuen Taxa wurden bisher in der Türkei 289 Arten und Unterarten aus 52 Gattungen bekannt. Aus der Familie der Eumenidae wurden für die Türkei hier *Jucancistrocerus caspicus* GIORDANI SOIKA 1970, *Microdynerus* (*Microdynerus*) *aegaeicus* GUSENLEITNER 1998, *Odynerus fulvitarsis* (MORAWITZ 1895) und *Quartinia popovi* GUSSAKOVSKIJ 1936 neu angeführt. Ausserdem wurden neue Fundorte für bereits aus der Türkei bekannten Arten gemacht.

Literature

GIORDANI SOIKA A. (1970): Contributo alla conoscenza degli Eumenidi del Medio Oriente (Hym.). — Boll. Mus. Stor. Nat. Venezia **20-21**: 27-183.

GUSENLITNER J. (2000a): Bestimmungstabellen mittel- und südeuropäischer Eumeniden (Vespoidea, Hymenoptera) Teil 14. der Gattungsschlüssel und die bisher in dieser Reihe nicht behandelten Gattungen und Arten. — Linzer biol. Beitr. **32**(1): 43-65.

GUSENLEITNER J. (2000b): Neue Eumeniden aus Syrien, der Türkei und dem Iran (Hymenoptera, Vespoidea). — Linzer biol. Beitr. **32**(2): 927-938.

GUSENLEITNER J. (2001): Stellungnahme zur Veröffentlichung „Studies on Eumenidae of Aegean Region" von Ayla Tüzün et al. In Entomofauna, Bd. 21, 2000, 197-212. — Linzer biol. Beitr. **33**(1): 227-231.

ÖZBAY C. & F. H. BILGIN (1997): Diyarbakýr, Mardin ve Þanlýurfa illeri Eumenidae (Hymenoptera, Vespoidea) faunasý üzerinde çalýþmalar. — Tr. J. of Zoology **21**: 431-438.

TÜZÜN A. & T. TANYOLAÇ (1988a): Ege Bölgesinde yasayan *Eumenes* (Hymenoptera: Eumenidae) türleri üzerinde arastirmalar. — C. Ü. Fen- Ed. Fak. Fen Bil. Derg. **6**: 21-37.

TÜZÜN A. & T. TANYOLAÇ (1988b): Ege Bölgesinde yasayan *Odynerus* (Hymenoptera: Eumenidae) türleri üzerinde arastirmalar. — C. Ü. Fen-Ed. Fak. Fen Bil. Derg. **7**: 105-128.

TÜZÜN A., BÝCAKÇÝ N., GÜLMEZ Y. & M.A. KÝRPÝK (2000): Studies on Eumenidae of Aegean Region (Insecta: Hymenoptera). — Entomofauna **21**: 197-212.

YÝLDÝRÝM E. & J. KOJIMA (1999): Distributional checklist of the species of the family Vespidae (Insecta: Hymenoptera; Aculeata) of Turkey. — Natural History Bulletion of Ibaraki University **3**:19-50.

VECHT J. VAN DER & F.C.J. FISCHER (1972): Palaearctic Eumenidae, Hymenopterum Catalogus, part 8 — Uitg. W. Junk, s Gravenhage, 199 pp.

Authors' addresses:

Assoc. Prof. Dr. Erol YILDIRIM
Atatürk University, Agriculture Faculty
Department of Plant Protection
TK 25240, Erzurum Turkey
e-mail: yildirimerol@hotmail.com

Dr. Josef GUSENLEITNER
Pfitznerstrasse 31, A-4020 Linz, Austria
e-mail: j.gusenleitner@utanet.at.